

AMENDED IN SENATE MAY 5, 2010
AMENDED IN SENATE APRIL 12, 2010

SENATE BILL

No. 1376

Introduced by Senator Romero
(Coauthors: Assembly Members Hall and Solorio)

February 19, 2010

An act to add and repeal Section 8157 of the Education Code, relating to career technical education, *and declaring the urgency thereof, to take effect immediately.*

LEGISLATIVE COUNSEL'S DIGEST

SB 1376, as amended, Romero. Career technical education: pilot preapprentice aerospace machining program.

Existing law establishes the Health Science and Medical Technology Project, administered by the State Department of Education to provide competitive grant funds to California public schools to enhance existing or establish new health-related career pathway programs.

This bill would state findings and declarations of the Legislature regarding California's aerospace workforce and trends in California's high schools. The bill would create a pilot preapprentice aerospace machining program, administered by the California Labor and Workforce Development Agency to provide career technical education to high school pupils in the form of machining and related curriculum that can be applied to various manufacturing industries in California, including, but not limited to, aerospace manufacturing, as specified. The program would be funded by a direct federal appropriation, that would be deposited into the Machinist Investment Fund, which would be created by this bill. The bill would provide that implementation of the program would be contingent upon receipt of sufficient federal

funding. Grants would be competitively awarded to community colleges based upon specified criteria, including their ability to address the existing local and regional industry manufacturing needs, while providing meaningful career technical education opportunities for at-risk youth. The bill would require the Chancellor's Office of the California Community Colleges system to develop preapprenticeship curriculum in aerospace technology, and machining technology generally. The model curriculum would be required to result in the issuance of a certificate of completion stating that the holder has completed curriculum that meets specified criteria. The bill would specify that, consistent with federal guidelines, each community college shall complete an evaluation of its participation in the pilot program on or before the end date of the grant award, and submit the evaluation to the chancellor's office by that date. The chancellor's office would be required to compile the information provided by the participating community colleges, and to submit an evaluation to the Legislature by December 1, 2013. The bill would provide that its provisions would remain in effect until January 1, 2015.

This bill would declare that it is to take effect immediately as an urgency statute.

Vote: ~~majority~~^{2/3}. Appropriation: no. Fiscal committee: yes.
State-mandated local program: no.

The people of the State of California do enact as follows:

- 1 SECTION 1. The Legislature hereby finds and declares all of
- 2 the following:
- 3 (a) Despite the departure of several companies since the military
- 4 base closures of the early 1990s, the aerospace industry remains
- 5 a vital component of California's economy, representing at least
- 6 370,000 jobs statewide and a minimum of thirty-two billion dollars
- 7 (\$32,000,000,000) annually in gross domestic product.
- 8 (b) There will be a dearth of skilled machinists and technicians
- 9 to work in the aerospace industry as the baby boomers begin to
- 10 retire over the next decade.
- 11 (c) The aerospace industry is currently addressing its labor needs
- 12 by luring skilled labor away from competing companies.
- 13 (d) The highly skilled labor sought by the aerospace industry
- 14 is represented by a finite, aging pool of employees who, under
- 15 current conditions, will not be readily replaced by younger workers.

1 (e) The continued growth of the aerospace industry is pivotal
2 to California's future prosperity.

3 (f) Unless the Legislature acts to address labor workforce needs
4 in this sector, the aerospace industry will continue to leave
5 California or import a far greater proportion of foreign labor which,
6 in either case, will cause significant damage to the state's economy.

7 (g) California's high schools are struggling with a dropout rate
8 of 21 percent.

9 (h) A significant factor in California's dropout rate is the
10 existence of curriculum that does not engage pupils with some
11 immediate, real-world application.

12 (i) Pupils who drop out of high school are often unable to find
13 suitable entry-level employment and have little chance of
14 continuing on to higher education, and there is a strong chance
15 that they will ultimately join California's prison population, given
16 the statistic that at least two-thirds of the current inmate population
17 does not possess a high school diploma.

18 (j) The dropout rate is likely to hold, and possibly worsen, unless
19 the state acts to provide hands-on high school curriculum with
20 cross-over mathematics and science applications, that also provides
21 an avenue to both higher education in related disciplines, and to
22 skilled, high-wage employment.

23 SEC. 2. Section 8157 is added to the Education Code, to read:

24 8157. (a) There is hereby established a pilot preapprentice
25 aerospace machining program that shall provide career technical
26 education to high school pupils in the form of machining and
27 related curriculum that can be applied to various manufacturing
28 industries in California, including, but not limited to, aerospace
29 manufacturing. The curriculum shall include, but not be limited
30 to, the following green technologies in aerospace manufacturing:

31 (1) Use of computers to assist in metalworking to eliminate
32 waste of aluminum, titanium, and other costly strategic metals in
33 the manufacturing process.

34 (2) Training in the machining of lighter, strategic materials,
35 including titanium and composites, to reduce weight and increase
36 aircraft fuel efficiency.

37 (3) Training in the fabrication of more energy-efficient aircraft
38 ventilation, heating, and cooling systems.

39 (b) The program shall be funded by a direct federal
40 appropriation. All funds appropriated for the purposes of this

1 program shall be deposited into the Machinist Investment Fund,
2 which is hereby created.

3 (c) The pilot program and the Machinists Investment Fund shall
4 be administered by the California Labor and Workforce
5 Development Agency.

6 (d) Implementation of the pilot program established by this
7 section shall be contingent upon receipt of sufficient federal
8 funding.

9 (e) Nothing in this section shall be construed to impose a
10 mandate on local workforce investment boards with regard to how
11 they will spend Workforce Investment Act funds, including funds
12 made available to them through the American Recovery and
13 Reinvestment Act.

14 (f) It is the intent of the Legislature that the goal of the pilot
15 program shall be the development of an industry-based sector
16 strategy to address labor needs in the manufacturing industry
17 generally and in the aerospace industry in particular, specifically
18 the need for trained machinists, and that the Labor and Workforce
19 Development Agency shall focus on efforts to assist in this strategy.

20 (g) The California Workforce Investment Board is encouraged,
21 in collaboration with local workforce investment boards, industry,
22 and community colleges, to seek and apply for funds for related
23 industry-based sector strategies.

24 (h) Community colleges, in partnership with local workforce
25 investment boards, employers, and high schools, shall apply for
26 grants that shall be competitively awarded based upon a number
27 of criteria, including, but not limited to:

28 (1) A detailed explanation regarding what actions the applicant
29 will take to ensure that it will meet the objectives of the program,
30 specifically, the ability to address the existing local and regional
31 industry manufacturing needs, while providing meaningful career
32 technical education opportunities for at-risk youth that are likely
33 to lead to employment after participation and to position pupils
34 for admission to additional higher education in a related field.

35 (2) Whether the adopted preapprenticeship curriculum in
36 aerospace technology, and machining technology generally,
37 conforms to the model curriculum developed by the Chancellor's
38 Office of the California Community Colleges system pursuant to
39 subdivision (i).

1 (3) Inclusion of an aggressive outreach plan demonstrating the
2 degree to which the pupils targeted to receive instruction may be
3 considered at risk, based upon factors such as prior academic
4 achievement, socioeconomic background, and school disciplinary
5 record. Special weight may be given to the specific media
6 employed to reach the target pupil population.

7 (4) Evidence that the application will advance an industry sector
8 strategy for addressing current and future labor needs, as well as
9 provide career paths for potential employees in the manufacturing
10 industry consistent with Division 8 (commencing with Section
11 15000) of the Unemployment Insurance Code.

12 (5) Evidence that the industry sector will benefit from the
13 regional economy in which it is located.

14 (6) The ability of the community college campus or of a regional
15 occupational center to provide sufficient in-house expertise and
16 laboratory facilities to teach the required curriculum.

17 (7) The availability and willingness of a local machinists union
18 to actively participate in program-related activities, including, but
19 not limited to, technical assistance for curriculum development,
20 mentoring, and recruiting pupils as future journeymen upon
21 completion of the preapprentice curriculum.

22 (8) Whether there are opportunities to build on existing
23 partnerships with local high schools in the region.

24 (i) The Chancellor's Office of the California Community
25 Colleges system shall develop preapprenticeship curriculum in
26 aerospace technology, and machining technology generally. The
27 model curriculum shall result in the issuance of a certificate of
28 completion stating that the holder has completed curriculum that
29 meets the National Institute of Metalworking Skills (NIMS)
30 standard. Upon completion of the curriculum, community colleges
31 shall administer to students a NIMS examination that, if passed,
32 will result in the issuance of a NIMS certificate. Individual colleges
33 wishing to participate in the pilot program established by this
34 section shall have the option of adopting the model curriculum
35 developed by the chancellor's office or adopting an alternative
36 curriculum that meets the standard for the certificate of completion.

37 (j) To provide maximum flexibility at the local level regarding
38 the details of implementation, community college campuses
39 selected for receipt of a competitive grant, in consultation with
40 area high schools, shall identify the location at which instruction

1 shall occur, whether on the high school campus, at a regional
2 occupation center, or at a community college. Factors such as
3 availability of curriculum, instructors, lab facilities, and
4 transportation may be considered.

5 (k) To the degree consistent with federal guidelines, the
6 community-based job training grant award recipients shall reserve
7 10 percent of the funds received for an evaluation component.
8 Each community college, in consultation with its local workforce
9 investment board, shall complete an evaluation of its participation
10 in the pilot program on or before the end date of the grant award,
11 and submit it to the chancellor's office by that date. The
12 chancellor's office shall compile the information provided by
13 participating community colleges and submit an evaluation to the
14 Legislature by December 1, 2013. The evaluation shall include all
15 of the following:

- 16 (1) A report of the number of students who received training.
- 17 (2) The number of students who completed training and received
18 a NIMS certificate.
- 19 (3) The number of private companies participating in the
20 training, either via in-kind equipment donations, mentorship and
21 apprentice activities, or other support.
- 22 (4) The number of students who obtained related employment
23 otherwise secured placement in a machining apprentice program
24 as a result of the training.

25 (l) This section shall remain in effect only until January 1, 2015,
26 and as of that date is repealed, unless a later enacted statute, that
27 is enacted before January 1, 2015, deletes or extends that date.

28 *SEC. 3. This act is an urgency statute necessary for the*
29 *immediate preservation of the public peace, health, or safety within*
30 *the meaning of Article IV of the Constitution and shall go into*
31 *immediate effect. The facts constituting the necessity are:*

32 *In order to access federal funding in the current budget cycle,*
33 *it is necessary for this act to take effect immediately.*